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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/698,218	10/31/2003	Chyi-Shan Wang	UVD 0307 VA/40815.412	1496
7590 08/19/2005		EXAMINER ·		
DINSMORE & SHOHL LLP			KOPEC, MARK T	
Suite 500 One Dayton Cer	ntre		ART UNIT PAPER NUMBER	
Dayton, OH 45402-2023			1751	
			DATE MAIL ED. 09/10/2004	•

Please find below and/or attached an Office communication concerning this application or proceeding.

			/W
	Application No.	Applicant(s)	
	10/698,218	WANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Mark Kopec	1751	
The MAILING DATE of this communication a Period for Reply	oppears on the cover sheet	with the correspondence addres	s
A SHORTENED STATUTORY PERIOD FOR REF	PLY IS SET TO EXPIRE 3	MONTH(S) FROM	
THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perion. - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may reply within the statutory minimum of the od will apply and will expire SIX (6) Mutute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this commur ABANDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 11	May 2005.		
	his action is non-final.		
3) Since this application is in condition for allow		atters, prosecution as to the me	rits is
closed in accordance with the practice unde	•	·	
Disposition of Claims			
4) Claim(s) 1-6 is/are pending in the application	n.		4
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-6</u> is/are rejected.		•	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and	d/or election requirement.		
Application Papers			
9) The specification is objected to by the Exami	iner.		
10) The drawing(s) filed on is/are: a) □ a	ccepted or b) objected t	o by the Examiner.	
Applicant may not request that any objection to the	he drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the corr	ection is required if the drawir	ng(s) is objected to. See 37 CFR 1.	121(d).
11)☐ The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-1	52.
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of:	gn priority under 35 U.S.C	§ 119(a)-(d) or (f).	
1. Certified copies of the priority docume	ents have been received.		
2. Certified copies of the priority docume	ents have been received in	Application No	
 Copies of the certified copies of the properties of the	•	en received in this National Stag	је
* See the attached detailed Office action for a li	, , , , , , , , , , , , , , , , , , , ,	ot received.	
	·		
AMaah			
Attachment(s)	∧□		
1)		v Summary (PTO-413) o(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date		f Informal Patent Application (PTO-152)) .

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This action is responsive to applicant's remarks filed 5/11/05. Claims 1-6 are currently pending.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-6 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Niu et al (6,783,702).

This rejection is maintained for the reasons set forth at pages 2-5 of the Rejection mailed 2/10/05.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Nahass et al (5,643,502).

This rejection is maintained for the reasons set forth in the Rejection mailed 7/15/04.

Applicant's arguments filed 5/11/05 have been fully considered but they are not persuasive.

Applicant's remarks regarding Niu are noted. Specifically, applicant contends that the claims of Niu specify carbon nanotubes (as opposed to the instantly claimed carbon nanofibers).

The examiner respectfully submits that a careful reading of Niu discloses the claimed "carbon nanotubes" can be:

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"carbon fibrils having: a substantially constant diameter; a length greater than about 5 times the diameter; an ordered outer region of catalytically grown, multiple, substantially continuous layers of ordered carbon atoms having an outside diameter between about 3.5 and 70 nanometers; and a distinct inner core region, each of the layers and the core being disposed substantially concentrically about the cylindrical axis of the fibrils, said fibrils being substantially free of pyrolytically deposited thermal carbon.

See claim 6 and Liu spec Col 5, line 49 to Col 6, line 10.

These carbon fibrils appear to be the same/substantially the same as the instantly claimed "vapor grown carbon nanofibers".

See instant specification, page 1.

Additionally, the claimed copolymers of Liu clearly meet the instant limitations regarding "polymeric nanocomposite".

Applicant's remarks regarding Nahass are noted. Applicant argues that Nahass does not disclose the claimed conductivity range or percolation threshold.

The examiner respectfully disagrees. The reference clearly teaches percolation threshold values within the claimed range.

Col 3, lines 25-28 states: "A conductive, static-dissipative or anti-static polymeric composition having acceptable toughness may be prepared by combining 0.25-50 wt % of carbon fibrils with one or more selected polymeric materials.". The reference teaches conductivity with as little as 0.25 wt% fibrils.

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Additionally, the reference teaches volume resistivity values as 10^2 or 10^3 ohm-cm (tables IV-V).

In view of the foregoing, the above claims have failed to patentably distinguish over the applied art.

The remaining references listed on forms 892 and 1449 have been reviewed by the examiner and are considered to be cumulative to or less material than the prior art references relied upon in the rejection above.

US 2003/0039816 is not available as prior art. The remaining references cited in the 210search report do not disclose the claimed vapor grown carbon nanofibers dispersed with a polymeric matrix.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Kopec whose telephone number is (571) 272-1319. The examiner can normally be reached on Monday - Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Kopec Primary Examiner Page 5

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August 16, 2005